

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentee: Mark D. Levedahl  
U.S. Patent No.: US 7,092,924 B1  
Issue Date: August 15, 2006  
Serial No.: 10/086,988  
Filing Date: February 28, 2002  
Confirmation No.: 6322  
Title: *Method and System for Assigning Observations*

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

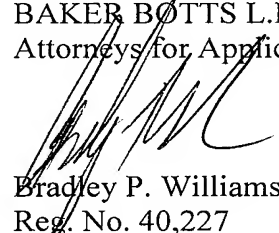
Dear Sir:

**REQUEST FOR CERTIFICATE OF CORRECTION**  
**UNDER 37 CFR § 1.322**

It is respectfully requested that a Certificate of Correction be issued in accordance with the enclosed Form PTO-1050. The error involved is believed to be a Patent Office error, and it is believed that no fee is due in association with this request for a Certificate of Correction. However, the Commissioner is hereby authorized to charge any fees or credit any overpayments to Deposit Account No. 02-0384 of Baker Botts L.L.P.

It is respectfully submitted that a significant error is present in the printed patent, that correction thereof in accordance with the enclosed Form PTO-1050 is required in order that no misunderstanding will occur.

Respectfully submitted,  
BAKER BOTTS L.L.P.  
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**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

Patent No.: US 7,092,924 B1  
Dated: August 15, 2006  
Inventor(s): Mark D. Levedahl

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**Column 5:**

Line 38, after "of these subject to:" delete " $m \leq n \leq N$ " and insert - -  $m \leq n \leq N$  - -.

**Column 6:**

Line 19, delete Equation (5) and insert - -

$$\forall (i \neq j \text{ and } a(j) > 0)$$

Line 27, delete Equation (6) and insert - -

$$P_a = \frac{e^{-\bar{x}^T R^{-1} \bar{x} / 2}}{(2\pi)^{M/2} \sqrt{|R|}} \prod_i^m \frac{e^{-[A_i - B_{a(i)} - \bar{x}]^T (P_i + Q_{a(i)})^{-1} [A_i - B_{a(i)} - \bar{x}] / 2}}{(2\pi)^{M/2} \sqrt{|P_i + Q_{a(i)}|}}$$

**Column 8:**

Line 19, delete Equation (11) and insert

$$g = 2 \ln \left[ \frac{\beta_i P_{TA} P_{TB}}{(2\pi)^{M/2} P_{NTA} P_{NTB}} \right]$$

$$P_{NTA} = \beta_i P_{TB} (1 - P_{TA}) + \beta_{FTB}$$

$$P_{NTB} = \beta_i P_{TA} (1 - P_{TB}) + \beta_{FTA}$$

Line 39, delete Equation (12) and insert

$$\delta f_i^2 = [A_i^f - B_{a(i)}^f]^T (F_{i,a(i)})^{-1} [A_i^f - B_{a(i)}^f] + \ln(|F_{i,a(i)}|)$$

$$J_{af} = -\bar{x}^T R^{-1} \bar{x} - \ln[(2\pi)^M |R|] - \sum_{i=1}^m \left\{ \begin{array}{ll} \delta x_i^T S_i^{-1} \delta x_i + \ln[|S_i|] + \delta f_i^2 & a(i) \neq 0 \\ g & a(i) = 0 \end{array} \right\}$$

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**Patent No.** US 7,092,924 B1

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**CERTIFICATE OF CORRECTION**

Patent No.: US 7,092,924 B1  
 Dated: August 15, 2006  
 Inventor(s): Mark D. Levedahl

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 8:

Line 53, after "make k assignments," delete " $0 \leq k \leq m$ " and insert  $-- 0 \leq k \leq m --$ .

Column 9:

Line 53, delete Equation (17) and insert

$$J_s - \bar{x}^T R^{-1} \bar{x} - \sum_{i=1}^s \left\{ \frac{\delta x_i^T S_i^{-1} \delta x_i + \ln[|S_i|]}{\bar{g}} - \ln(d_{\min}) \quad \begin{matrix} a(i) \neq 0 \\ a(i) = 0 \end{matrix} \right\} + \left\{ \ln([2\pi]^M |R|) \quad \begin{matrix} n_a = 0 \\ 0 \quad n_a > 0 \end{matrix} \right\}$$

Column 12:

Line 22, after "where" delete " $k_g \geq 1$ " and insert  $-- k_g \geq 1 --$ .

Line 56, delete Equation (18) and insert

$$P_i = P_i + R$$

Column 14:

Line 58, Claim 2, after "associated input" delete "are" and insert  $-- \text{arc} --$ .

Column 15:

Line 8, Claim 5, delete the equation found after "the cost function is" and insert

$$J_s - \bar{x}^T R^{-1} \bar{x} - \sum_{i=1}^s \left\{ \frac{\delta x_i^T S_i^{-1} \delta x_i + \ln[|S_i|]}{\bar{g}} - \ln(d_{\min}) \quad \begin{matrix} a(i) \neq 0 \\ a(i) = 0 \end{matrix} \right\} + \left\{ \ln([2\pi]^M |R|) \quad \begin{matrix} n_a = 0 \\ 0 \quad n_a > 0 \end{matrix} \right\}$$

Column 16:

Line 20, Claim 16 delete the equation found after "the cost function is" and insert

$$J_s - \bar{x}^T R^{-1} \bar{x} - \sum_{i=1}^s \left\{ \frac{\delta x_i^T S_i^{-1} \delta x_i + \ln[|S_i|]}{\bar{g}} - \ln(d_{\min}) \quad \begin{matrix} a(i) \neq 0 \\ a(i) = 0 \end{matrix} \right\} + \left\{ \ln([2\pi]^M |R|) \quad \begin{matrix} n_a = 0 \\ 0 \quad n_a > 0 \end{matrix} \right\}$$

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**Patent No.** US 7,433,931 B2

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

Patent No.: US 7,092,924 B1  
Dated: August 15, 2006  
Inventor(s): Mark D. Levedahl

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 16:

Line 42, Claim 17, after

$\bar{x}$ ,

delete "o the cost" and insert - - **of the cost** - - .

Column 17:

Line 34, Claim 27, delete the equation found after "the cost function is" and insert

$$J_s - \bar{x}^T R^{-1} \bar{x} - \sum_{i=1}^s \left\{ \frac{\delta x_i^T S_i^{-1} \delta x_i + \ln \|S_i\| - \ln(d_{\min})}{\bar{g}} \begin{matrix} a(i) \neq 0 \\ a(i) = 0 \end{matrix} \right\} + \left\{ \begin{matrix} \ln([2\pi]^M |R|) & n_a = 0 \\ 0 & n_a > 0 \end{matrix} \right\}$$

Line 48, after "M=Number of" delete "fist" and insert - - **first** - - .

Line 50, delete the equation after "a=Assignment vector:" and insert

$$a_{(i)} > 0 \rightarrow A_i$$

Line 57, Claim 29, delete the equation found after "the cost function is" and insert

$$J_s - \bar{x}^T R^{-1} \bar{x} - \sum_{i=1}^s \left\{ \frac{\delta x_i^T S_i^{-1} \delta x_i + \ln \|S_i\| - \ln(d_{\min})}{\bar{g}} \begin{matrix} a(i) \neq 0 \\ a(i) = 0 \end{matrix} \right\} + \left\{ \begin{matrix} \ln([2\pi]^M |R|) & n_a = 0 \\ 0 & n_a > 0 \end{matrix} \right\}$$

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**Patent No.** US 7,433,931 B2